PALLAS™

Decision Support for Space and Ground Systems Operations using Predictive Diagnostics

ADVANCED DECISION-MAKING, SIMULATION, AND AWARENESS

PALLAS is a comprehensive technology solution that maximizes system operations by using advanced data analytics for predictive diagnostics from components to systems. Multiple interactive modules provide critical decision-making oversight enabling full system operability while early anomalous detection enables system elements to be taken offline for troubleshooting/maintenance without impacting overall system operations. Monitored system elements include tracking antennas, multiple spacecraft, and data communications systems. PALLAS uses automation, artificial intelligence (AI), and machine learning (ML) to not only accelerate decision-making but to recommend the best actions to take for the desired outcome.

PALLAS™

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For more information about our solutions, products, and services, visit:
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Features

- "Multi-domain sandbox" environment
- Wargaming
- "What if" scenarios
- Mission replay/pre-play support
- Payload/sensor planning
- Payload/sensor optimization
- Workflow previews
- System-failure prevention analysis

Benefits

- Advanced space ground systems management via AI/ML/reactive control logic-driven operational decision making
- Maximize system operational efficiency by eliminating unplanned down time caused by unexpected components failures
- Minimize overall system maintenance costs by enabling preventative maintenance versus "operate to failure"
- Eliminate collateral damage and repair expense by implementing prevention through predictive diagnostics

Situational awareness is vital to space battle operations and PALLAS is a modern, all-in-one technology solution that allows operators to visualize the precise data they need to make informed, accurate decisions. Constant access to real-time visuals allows operators to decide the right action to take.

PALLAS allows users to visualize what is currently happening in coordination with its predictive and optimization features. PALLAS incorporates remote sensing capabilities to provide visual situational awareness and data collection, as well as advanced data analytics for predictive maintenance and optimum scheduling of, or recovery options for, mission/system downtime.

The technology also provides clear options for what actions can be taken, including logical internal sample simulations that include remote sensing data, intelligent payload/sensor planning and optimization, and sensor tasking and collection workflow previews. Once the options are established, PALLAS also offers a "multi-domain sandbox" environment that enables war-gaming, "what if" scenario evaluation and refinement, and mission pre-play/replay support.

These capabilities work in concert to provide decision-makers the information they need to predict probable outcomes of various scenarios and guide them toward the most efficient and effective plan of action.

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